

Title: Amendment  
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Identification of the Case

Application Number: 181026/2001

Party effecting the amendment:

Identification Number: 000005108

Name: HITACHI, LTD.

Agent

Identification Number: 100075096

Patent Agent

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Amendment 1

Object of Amendment - Document Title: Specification

Object of Amendment - Item Title: Claims

Method of Amendment: Conversion

Amendment Details

[Claims]

[Claim 1]

A method of transferring an optical supervisory signal in an optical transmission system which multiplexes an optical data signal and an optical supervisory signal containing optical transmission system monitoring information and transmits them through an optical transmission line, the method comprising the steps of:

receiving an optical data and a first optical supervisory signal which have been multiplexed and transmitted, from a first optical transmission line;

demultiplexing said received optical data signal and first optical supervisory signal;

optically amplifying said demultiplexed optical data signal by an optical amplifier;

converting said demultiplexed first optical supervisory signal into a first electric supervisory signal;

converting said first electric supervisory signal into a second electric supervisory signal;

converting said second electric supervisory signal into a second optical supervisory signal; and

multiplexing said amplified optical data signal and said second optical

supervisory signal; and

sending said multiplexed optical data signal and second optical supervisory signal to a second optical transmission line,

wherein the wavelength of said first optical supervisory signal or said second optical supervisory signal is out of the amplification range of said optical amplifier and the wavelength of said second optical supervisory signal is such a wavelength that its transmission loss in said second optical transmission line is virtually the same as transmission loss of said optical data signal in said second optical transmission line.

[Claim 2]

The method of transferring an optical supervisory signal as claimed in Claim 1, wherein the wavelength of said optical supervisory signal is in the range of 1.48  $\mu\text{m}$  to 1.60  $\mu\text{m}$ .